

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO36617 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name VU-TWWM001 TW Metals											
PO36617	1		M2024T3T1.000W 06 f 5		6/16/2017	6/13/2017	36.0000		0.0000	0	\$0.00
USD	No		2024T3 Tubing 1" OD x 0.65" Thick ml37776	f	36.0000	PLOU01			0.0000	0	
	2		71401-45		6/16/2017	6/13/2017	1.0000		0.0000	0	\$0.00
	No		PROCUREMENT QUALITY CLAUSES ml37776		1.0000	PLOU01			0.0000	0	
Total Received Quantity:											37.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$0.00
Total Balance Due Quantity:											0.0000



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60633598

FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT:

8.243 REQ.DATE: 06/16/17 CONFIRMED

SOLD TO:

SHIP TO:

DART AEROSPACE LTD

DART AEROSPACE LTD

1270 ABERDEEN ST

1270 ABERDEEN ST

HAWKESBURY ON

HAWKESBURY ON

CANADA

CN K6A 1K7

ONTARIO CANADA

CN K6A 1K7

SALESPERSON: DONNA SMALLEY

SHIP BY: 06/09/17

TERMS: NET 30 DAYS

VIA: COMMON CARRIER

F.O.B.: SHIPPING POINT

FREIGHT: PREPAID

CUST ORD NO.: PO36617

RELEASE NO.:

RECEIVING PHONE:

LINE ITEM DESCRIPTION

WIDTH

LENGTH

0001 43260 D2024-T3 1 OD X .065 WA

12 FT ML

CLN#

ORD QTY

INVOICE QTY

SHIPPED QTY

WT

PCS

36.000 FT

36.000 FT

36.000 FT

8.243

3

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99

Export License: NLR

Expiration Date: 0/00/00

PO:49341478 HT:F002012480001

PC: 3

CUSTOMER QTY:

UOM

MLT:UNITED STATES MFG:UNITED STATES

SLB/CL:219348

BROKERS KUEHNE AND NAGEL LTD

AREA		TYPE OF PKG		PACK INFO		PKGS		GRS WEIGHT		WIDTH		LENGTH		HGHT	
NEW PEN		CARTON				1.000		18.243		4.0000		150.0000		4	
						Box		No -		TWP		K17002090			
						1.000		18.243							

BY:

RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED

DATE FILLED

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>

KAISER ALUMINUM

FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49341478-1		CUSTOMER PART NUMBER: 43260		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 219348	LINE ITEM: 001	SHIP DATE: 11/02/2015	KAISER LOT NUMBER: F00201248	ALLOY: 2024	TEMPER: T3
WEIGHT SHIPPED: 379.000 LB	QUANTITY: 138.000 PCS	B/L NUMBER: 220262	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON% IACS	BEND
F00201248	0001	1	69.9	50.0	22.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

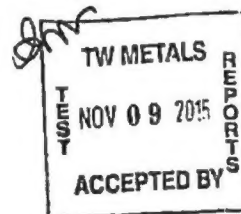
LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.50	0.50	4.90	0.90	1.80	0.10	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.00	0.00	3.80	0.30	1.20	0.00	0.00	0.00	NA	NA	NA	0.00	0.00
D82179	.10	.14	4.60	.72	1.36	.01	.05	.02	.00	.00	.01	.05	.06

Applicable Requirements:

Description: OD: 1.0000"; Wall: 0.0650"; Round @
AMS-4088K AMS-WW-T-700/3A ASTM B210-12
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).



Plant Serial: 00020683
Kaiser Order Number: 219348
Line Item: 001

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Nathaniel Stevens, Quality Manager





O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 60633598

FROM: CRAN

PAGE 2

CUST NUMBER: 1203820 NET WGT: 8.243 REQ.DATE: 06/16/17 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 06/09/17
TERMS: NET 30 DAYS 27 ENGLEHARD DRIVE
F.O.B.: SHIPPING POINT MONROE TWP NJ 08831
CUST ORD NO.: PO36617
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk Corneliana Date: 6/09/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

1
THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
<http://www.twmetals.com/invoice-terms.html>

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M20241371.000W.065
 DATE: 17-06-19

PO / BATCH NO.: P030617/M137776

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 36'
 QUANTITY INSPECTED: 36'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W065
 THICKNESS RECEIVED: W.063
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	Y	(N)	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT # F00201248
CORRECT MATERIAL IDENTIFICATION	(Y)	N	ASTM A210-12 acceptable per email.
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	(Y)	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 39 / 10</u> DATE: <u>17-06-19</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Patrick Duval

From: Patrick Smith
Sent: Wednesday, June 28, 2017 8:17 AM
To: Chris Provencal; Linda Lacelle
Cc: Mario Poulin; Robert Aboud; Chantal Lavoie; Eric Downing; Patrick Duval; David Duval
Subject: RE: material M2024T3T

Chris,

I spoke to the engineering group at Airbus regarding the Trailing Bar Assembly SK145-0114 and they have started the process to update the drawing with the correct material specification.

They predict it will take up to two weeks to complete this, but until then they will make a concession/deviation to the drawing and provide that as soon as it is complete.

Pat

From: Patrick Smith
Sent: Monday, June 26, 2017 9:16 AM
To: Chris Provencal <cprovencal@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>; Eric Downing <edowning@dartaero.com>; Patrick Duval <pduval@dartaero.com>; David Duval <dduval@dartaero.com>
Subject: RE: material M2024T3T

Chris,

I will reach out to Airbus regarding this today and let you know. It's only a 21 page document.

Pat

From: Chris Provencal
Sent: Monday, June 26, 2017 9:05 AM
To: Patrick Smith <psmith@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>; Eric Downing <edowning@dartaero.com>; Patrick Duval <pduval@dartaero.com>; David Duval <dduval@dartaero.com>
Subject: RE: material M2024T3T

Engineering can create dwg M2024T3T for this material and there is no internal issue with using ASTM B210. My only question: the Airbus dwg doesn't call for that spec, do we need a disposition from Airbus to use this material?

Chris

From: Patrick Smith
Sent: Monday, June 26, 2017 8:59 AM
To: Linda Lacelle <llacelle@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>; Chris Provencal <cprovencal@dartaero.com>; Robert Aboud

<raboud@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>; Eric Downing <edowning@dartaero.com>; Patrick Duval <pduval@dartaero.com>; David Duval <dduval@dartaero.com>

Subject: RE: material M2024T3T

Linda,

This still requires a formal acceptance to the material which was received, whether it is airworthy or not.

We have launched a five year contract to supply these parts.

Can this spec be added to the BOM, so in the future we avoid this issue?

Pat

From: Linda Lacelle

Sent: Monday, June 26, 2017 7:09 AM

To: Patrick Smith <psmith@dartaero.com>; Patrick Duval <pduval@dartaero.com>

Cc: Mario Poulin <mpoulin@dartaero.com>; Chris Provencal <cprovencal@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>; David Duval <dduval@dartaero.com>; Eric Downing <edowning@dartaero.com>

Subject: RE: material M2024T3T

This is for SK145-0114-01 - Trailing Bar Assembly, Rotor Blade, Folding (661K1891-105A), not an airworthy part and is due to ship on July 25

L

From: Patrick Smith

Sent: Saturday, June 24, 2017 1:15 PM

To: Patrick Duval <pduval@dartaero.com>

Cc: Mario Poulin <mpoulin@dartaero.com>; Chris Provencal <cprovencal@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>; David Duval <dduval@dartaero.com>; Eric Downing <edowning@dartaero.com>

Subject: RE: material M2024T3T

Pat,

Is there an urgent requirement for the use of the material, if there is the material can be issued to a work order under positive recall according the QSI 020 chapter 6.2.

I would suggest that we talk to Chris, Robert and Mario to ensure we are all on the same page for releasing this material.

Pat

From: Patrick Duval

Sent: Saturday, June 24, 2017 6:36 AM

To: Patrick Smith <psmith@dartaero.com>

Subject: FW: material M2024T3T
Importance: High

Following up on this...

From: Patrick Duval
Sent: Tuesday, June 20, 2017 2:58 PM
To: Patrick Smith <psmith@dartaero.com>; Chris Provencal (<cprovencal@dartaero.com> <cprovencal@dartaero.com>
Cc: Mario Poulin (<mpoulin@dartaero.com> <mpoulin@dartaero.com>; Robert Aboud (<raboud@dartaero.com> <raboud@dartaero.com>; Chantal Lavoie (<clavoie@dartaero.com> <clavoie@dartaero.com>; Linda Lacelle (<llacelle@dartaero.com> <llacelle@dartaero.com>; David Duval (<dduval@dartaero.com> <dduval@dartaero.com>; Eric Downing (<edowning@dartaero.com> <edowning@dartaero.com>
Subject: FW: material M2024T3T
Importance: High

Pat,

The material that we received for the Airbus SK 145 doesn't have the spec that airbus ask on their drawings (see attach for detail), will this be acceptable and who can deviate Airbus drawing. This will need to be looked in pretty quick, because production will be asking for it.

Pat. D.

From: Patrick Duval
Sent: Monday, June 19, 2017 4:35 PM
To: Chris Provencal (<cprovencal@dartaero.com> <cprovencal@dartaero.com>
Cc: Robert Aboud (<raboud@dartaero.com> <raboud@dartaero.com>; Chantal Lavoie (<clavoie@dartaero.com> <clavoie@dartaero.com>
Subject: material M2024T3T

Chris,

Can you please look at NCR17-6460. I can see from your email that material M2024T3T should be as per AMS-QQ-250/4 specs, but we actually receive material par ATSM B210-12. Please look into this ASAP, if this material doesn't conform we will need to send it for replacement.

Pat Duval
QC Coordinator
T: 1-613-632-5200 ext. 288
F: 1-613-632-5246
www.dartaero.com
pduval@dartaero.com





Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36617

Purchase Order Date 6/8/2017

PO Print Date 6/8/2017

Page Number 1 of 2

Order From :

VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

JUN 08 2017

Contact Name

Vendor Phone 585 768 5600

Ship To Contact

Ship To Phone

Ship Via: YRC COLLECT

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M2024T3T1.000W.065 ✓	2024T3 Tubing 1" OD x 0.65" Thick	6/16/2017 Yes 6/16/2017		36.00 ✓ f	\$7.50	\$270.00
AS PER MATERIAL 2024-T3 ROUND TUBING, MAT'L SPEC'S AMS-QQ-A-250/4							

Line Total: \$270.00

2	71401-45	PROCUREMENT QUALITY CLAUSES ✓	6/16/2017 No 6/16/2017		1.00 ✓	\$0.00	\$0.00
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents							

8/17-6-13.

Note:

6/8/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36617

Purchase Order Date 6/8/2017

PO Print Date 6/8/2017

Page Number 2 of 2

Order From :

VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 585 768 5600

Ship To Contact

Ship To Phone

Ship Via: YRC COLLECT

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Total: \$0.00

PO Total: \$270.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 6/8/2017